

Why trees matter to Marco Island

FINANCIAL & HEALTH

\$90,000 of direct benefits for every tree (Burden)

50% reduction in air conditioning costs (Burden)

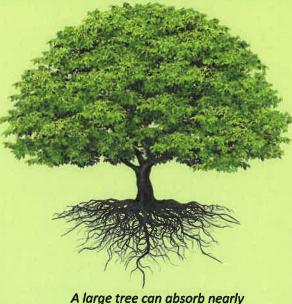
Lengthen pavement life by 40% to 60% (Burden)

12% higher income streams for businesses (Wolf)

15% increase in home or business value. (Wolf)

33% lower odds of rating general health as "fair" or "poor" (Phys.org)

ADHD and stress reduction in adults and children (Wolf)



A large tree can absorb nearly 250,000 gallons of runoff and rainfall in its lifetime

ENVIRONMENT

Reduce CO² the equivalent of 26,000 car miles per one acre of trees (Tree People)

Prevent water pollution by 30% allowing water to flow down the trunk into the earth (Burden)

Oxygen for 18 people, per one acre of trees (Tree People)

50% reduction in UV-B radiation (Tree People)

5 to 15-degree temperature reduction (EPA)

Increase wildlife and natural pest control (Tree People)



The Big Problem: Marco Island has extremely low tree coverage, and Florida is losing trees every day

Florida has lost **26% of its tree coverage since 2000**, and most of Marco Island has very low tree density of only 10%. The national average of tree density in major U.S. cities is 27%. (Tree Equity)

Let's plant 10,000 trees on Marco Island and create a legacy for generations!

How trees dramatically reduce CO2, runoff and electricity demand on Marco Island

Palm (Royal Palm)

SAVINGS PER TREE

1,221	CO2 Avoided	9,000
	(pounds)	
9,000	CO2 Sequestered (pounds)	34,000
2,300	Electric Energy Saved (kWh)	7,000
215,000	Rainfall Interception (gallons)	119,000
19,000	Avoided Runoff (gallons)	11,000



Broadleaf Tree (Magnolia)

Estimates are from i-Tree planting data, showing value over the 40-year life of a tree with a 10% mortality rate

University of Florida: Tree Species for Wind Resistance

Dicots and Conifers

Bursera simaruba, gumbo limbo Carya Floridana, Florida scrub hickory Conocarpus erectus, buttonwood Chrysobalanus icaco, cocoplum Cordia sebestena, geiger tree Eugenia axillaris, white stopper Eugenia confusa, redberry Eugenia foetida, boxleaf stopper Guaiacum sanctum, lignum vitae Ilex cassine, dahoon holly Krugiodendrum ferreum, ironwood Lagerstroemia indica, crape myrtle Magnolia grandiflora, southern magnolia Podocarpus spp, podocarpus Quercus virginiana, live oak Quercus geminata, sand live oak Taxodium ascendens, pond cypress Taxodium distichum, bald cypress

Palms

Butia capitata, pindo or jelly Dypsis lutescens, areca Coccothrinax argentata, Florida silver Hyophorbe lagenicaulis, bottle Hyophorbe verschaffeltii, spindle Latania loddigesii, blue latan Livistona chinensis, Chinese fan palma Phoenix canariensis, Canary Island date Phoenix dactylifera, date Phoenix reclinata, Senegal date palma Phoenix roebelenii, pygmy date Ptychoesperma elegans, Alexander Sabal palmetto, cabbage, sabal Thrinax morrisii, key thatch Thringx radiata, Florida thatch Veitchia merrillii, Manila

^a Invasive and not recommended for use in Florida